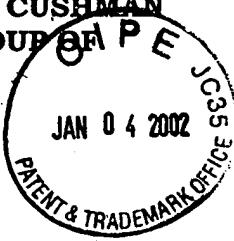


DIKE, BRONSTEIN, ROBERTS & CUSHMAN  
INTELLECTUAL PROPERTY GROUP OF P E  
EDWARDS & ANGELL, LLP  
P.O. Box 9169  
Boston, Massachusetts 02209

Docket N . (45676) 55531  
23



Page 1 of 4

### DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that: My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed at 201) below or an original, first and joint inventor (if plural names are listed at 201-206 below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: TRIBOLOGICAL MATERIALS AND STRUCTURES AND METHODS FOR MAKING THE SAME

which is described and claimed in:

the specification attached hereto.

the specification in U.S. Application Serial Number 09/833,755, filed on April 11, 2001.

the specification in PCT international application Number, \_\_\_\_\_, filed on \_\_\_\_\_; and was amended on \_\_\_\_\_.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a). I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

#### Prior Foreign/PCT Applications and Any Priority Claims Under 35 U.S.C. §119:

Application No.	Filing Date	Country	Priority Claimed Under 35 U.S.C. §119?
			YES NO
			YES NO
			YES NO

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below, and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 CFR §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

**Prior U.S. Applications or PCT International Applications Designating the U.S. Benefit Under  
35 U.S.C. §120**

<b>U.S. Applications</b>		<b>Status (Check One)</b>		
<b>Application Serial No.</b>	<b>U.S. Filing Date</b>	<b>Patented</b>	<b>Pending</b>	<b>Abandoned</b>
<b>PCT Applications Designating the U.S.</b>				
<b>Application No.</b>	<b>Filing Date</b>	<b>U.S. Serial No. Assigned</b>		

**CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S)  
(35 U.S.C. §119(e))**

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

<b>Applicant</b>	<b>Provisional Application Number</b>	<b>Filing Date</b>
Edward J. Mack Sr., et al.	60/222,107	July 28, 2000
Edward J. Mack Sr., et al.	60/222,108	July 28, 2000

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) with full powers of association, substitution and revocation to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Sewall P. Bronstein (Reg. No. 16,919)	Peter F. Corless (Reg. No. 33,860)	Robert L. Buchanan (Reg. No. 40,927)
David G. Conlin (Reg. No. 27,026)	Peter J. Manus (Reg. No. 26,766)	Christine C. O'Day (Reg. No. 38,256)
George W. Neuner (Reg. No. 26,964)	Cara Z. Lowen (Reg. No. 38,227)	Lisa Swiszcz Hazzard (Reg. No. 44,368)
Linda M. Buckley (Reg. No. 31,003)	William J. Daley, Jr. (Reg. No. 35,487)	David A. Tucker (Reg. No. 27,840)
	George W. Hartnell, III (Reg. No. 42,639)	Steven M. Jensen (Reg. No. 42,693)

**SEND CORRESPONDENCE TO:**  
Lisa Swiszcz Hazzard (Reg. No. 44,368)  
Dike, Bronstein, Roberts & Cushman  
Intellectual Property Practice Group  
Edwards & Angell, LLP  
P.O. Box 9169  
Boston, Massachusetts 02209

**DIRECT TELEPHONE CALLS TO:**  
**617-439-4444**

201	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
		<b>MACK, Sr.</b>	<b>Edward</b>	<b>J.</b>
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
				<b>USA</b>
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE
		<b>1389 Hope Street</b>	<b>Bristol</b>	<b>Rhode Island 02809</b>
202	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
		<b>MACK</b>	<b>James</b>	<b>P.</b>
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
				<b>USA</b>
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE
		<b>117 Constitution Street</b>	<b>Bristol</b>	<b>Rhode Island 02809</b>
203	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
		<b>MACK</b>	<b>Thomas</b>	<b>P.</b>
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
				<b>USA</b>
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE
		<b>510 Child Street #312 B</b>	<b>Warren</b>	<b>Rhode Island 02885</b>
204	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE
205	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE
206	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE

2 0 1	MACK	LAST NAME <b>MACK, Sr.</b>	FIRST NAME <b>Edward</b>	MIDDLE NAME <b>J.</b>
	RESIDENCE & CITIZENSHIP	CITY <b>Bristol</b>	STATE OR FOREIGN COUNTRY <b>Rhode Island</b>	COUNTRY OF CITIZENSHIP <b>U.S.A.</b>
	POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>1389 Hope Street</b>	CITY <b>Bristol</b>	STATE OR COUNTRY AND ZIP CODE <b>Rhode Island 02809</b>

2 0 2	FULL NAME OF INVENTOR	LAST NAME <b>MACK</b>	FIRST NAME <b>James</b>	MIDDLE NAME <b>P.</b>
	RESIDENCE & CITIZENSHIP	CITY <b>Bristol</b>	STATE OR FOREIGN COUNTRY <b>Rhode Island</b>	COUNTRY OF CITIZENSHIP <b>U.S.A.</b>
	POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>117 Constitution Street</b>	CITY <b>Bristol</b>	STATE OR COUNTRY AND ZIP CODE <b>Rhode Island 02809</b>

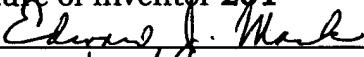
2 0 3	FULL NAME OF INVENTOR	LAST NAME <b>MACK</b>	FIRST NAME <b>Thomas</b>	MIDDLE NAME <b>P.</b>
	RESIDENCE & CITIZENSHIP	CITY <b>Warren</b>	STATE OR FOREIGN COUNTRY <b>Rhode Island</b>	COUNTRY OF CITIZENSHIP <b>U.S.A.</b>
	POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>510 Child Street, #312 B</b>	CITY <b>Warren</b>	STATE OR COUNTRY AND ZIP CODE <b>Rhode Island 02885</b>

I hereby further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signature of Inventor 201	Signature of Inventor 202
Date:	Date: 12-4-01

Signature of Inventor 203	
Date:	

I hereby further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signature of Inventor 201 	Signature of Inventor 202
Date: 11/29/01	Date:
Signature of Inventor 203 	Signature of Inventor 204
Date: 11/29/01	Date:
Signature of Inventor 205	Signature of Inventor 206
Date:	Date:

#182249.bos2



Docket No. 55531(45676)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Mack, et al.

U.S.S.N.: 09/833,755 Group No.:

Filed: April 11, 2001 Examiner:

For: Tribological Materials and Structures and Methods for Making the Same

**CERTIFICATE OF MAILING**

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: BOX MISSING PARTS, Assistant Commissioner for Patents, Washington, D.C. 20231 on December 1, 2001

By: Annemarie Serrechia  
Annemarie Serrechia

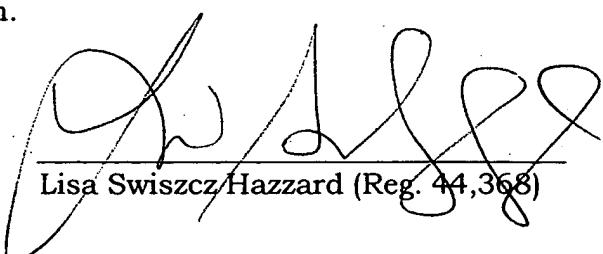
\*\*\*\*\*  
BOX MISSING PARTS  
Assistant Commissioner for Patents  
Washington, D.C. 20231

**STATEMENT BY PRACTITIONER THAT APPLICATION FILED IN PTO  
IS THE ONE INVENTOR EXECUTED BY SIGNING DECLARATION**

I, Lisa Swiszcz Hazzard (Reg. No. 44,368)  
DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP  
Intellectual Property Practice Group of  
EDWARDS & ANGELL, LLP  
P.O. Box 9169  
Boston, MA 02209

state I am the registered practitioner for this application and the application identified above is the application that the inventor(s) executed by signing the declaration that is being submitted herewith.

Date: 12/7/01

  
Lisa Swiszcz Hazzard (Reg. 44,368)